## AMENDMENTS TO THE CLAIMS

The following is a complete listing of claims with a status identifier in parenthesis.

## LISTING OF CLAIMS

- 1. (Original) An apparatus for fabricating a semiconductor device, comprising: a process chamber; a susceptor disposed within the process chamber; a shower part disposed to face the susceptor within the process chamber; a first supply pipe for supplying a first source gas to the process chamber; and a heating device for heating the first source gas.
- 2. (Original) The apparatus of claim 1, wherein the heating device is a heat pipe that has one end connected with the first supply pipe, the other end connected with the shower part, the heat pipe passing around the susceptor.
- 3. (Original) The apparatus of claim 2, wherein the heat pipe has a first heat part coil-shaped to surround a circumference of the susceptor.
- 4. (Original) The apparatus of claim 3, wherein the first heat part is inside an outer wall of the process chamber.
- 5. (Original) The apparatus of claim 4, wherein the first heat part is formed ranging from a lower portion of a sidewall of the process chamber to an upper portion of the sidewall of the process chamber.
- 6. (Original) The apparatus of claim 3, wherein the heat pipe further has a second heat part disposed in a lower wall of the process chamber and connected with the first supply pipe, and being

spiral-shaped to have a radius increasing from a central portion of the lower wall of the process chamber to an outside portion of the lower wall on the same plane.

- 7. (Original) The apparatus of claim 3, wherein the heat pipe further comprises a third heat part being disposed at an upper portion within the process chamber and connected with the shower part, and being spiral-shaped to have a radius increasing from a central portion of the upper wall of the process chamber to an outside portion of the upper wall on the same plane.
- 8. (Original) The apparatus of claim 3, wherein the first heat part is disposed between the outer wall of the process chamber and the susceptor.
- 9. (Original) The apparatus of claim 3, wherein the heat pipe further comprises a third heat part extending from the first heat part and surrounding a circumference of the shower part in a coiled shape.
- 10. (Original) The apparatus of claim 3, further comprising a liner disposed between the first heat part of the heat pipe and the susceptor.
- 11. (Original) The apparatus of claim 1, further comprising a second supply pipe for supplying a second source gas to the shower part.
- 12. (Original) The apparatus of claim 11, wherein the apparatus is a metal organic chemical vapor deposition (MOCVD) apparatus.

- 13. (Original) The apparatus of claim 12, wherein the first source gas is a gas flowing into the process chamber at a room temperature, and the second source gas is a metal organic gas inflowing into the process chamber in a heated state.
- 14. (Original) The apparatus of claim 1, wherein the heating device is a heater installed on the first supply pipe.
- 15. (Original) The apparatus of claim 11, wherein the shower part comprises: a first inlet part which the first source gas flows into; a second inlet part which the second source gas flows into, wherein the second inlet part is separated from the first inlet part.
  - 16. (Original) The apparatus of claim 1, wherein a layer deposited is a ferroelectric layer.
- 17. (Original) The apparatus of claim 11, wherein the first source gas is an oxygen gas, and a second source gas includes lead (Pb) or compounds thereof, zirconium (Zr) or compounds thereof and titanium (Ti) or compounds thereof.
- 18. (Original) A heating arrangement for heating a source gas in an apparatus for fabricating a semiconductor device, comprising: at least one heating device for heating at least one source gas input to the apparatus for fabricating the semiconductor device.
- 19. (Original) The heating arrangement of claim 18, wherein the at least one heating device is placed in a path of a pipe for delivering the at least one source gas to the apparatus for fabricating the semiconductor device.

- 20. (Original) The heating arrangement of claim 18, the at least one heating device including a heat pipe including at least one part.
- 21. (Original) The heating arrangement of claim 20, wherein the at least one part is embedded in or inside a wall of a process chamber of the apparatus for fabricating the semiconductor device.
- 22. (Original) The heating arrangement of claim 20, further comprising a liner adjacent to the at least one part.
- 23. (Original) The heating arrangement of claim 20, wherein the at least one part is a twodimensional or three-dimensional shape.
- 24. (Original) The heating arrangement of claim 23, wherein the at least one part is a linear, spiral, or helical shape.
- 25. (Original) The heating arrangement of claim 20, the heat pipe including at least two parts.
- 26. (Original) The heating arrangement of claim 25, wherein the at least two parts are a two-dimensional or three-dimensional shape.
- 27. (Original) The heating arrangement of claim 26, wherein the at least two parts are a linear, spiral, or helical shape.

- 28. (Original) The heating arrangement of claim 20, the heat pipe including at least three parts.
- 29. (Original) The heating arrangement of claim 28, wherein the at least three parts are a two-dimensional or three-dimensional shape.
- 30. (Original) The heating arrangement of claim 29, wherein the at least three parts are a linear, spiral, or helical shape.
- 31. (Original) A method of reducing thermal disturbance during fabrication of semiconductor device, comprising:

heating a first source gas to be supplied to a process chamber above room temperature; and heating all other source gases to be supplied to the process chamber above room temperature.

32. (Original) A method of exchanging heat during fabrication of a semiconductor device, comprising:

heating a source gas to be supplied to a process chamber above room temperature using a heat source internal to the process chamber.

33. (Original) The method of claim 32, wherein the heat source internal to the process chamber is a heat source for a susceptor in the process chamber.